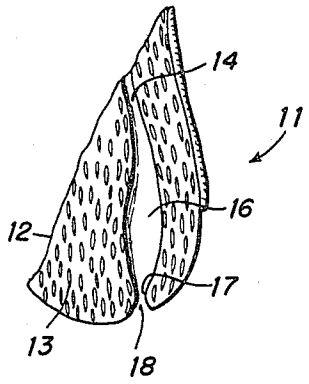
March 19, 1968 C. W. WHITE ETAL 3,373,746

INTERNAL PROPHYLACTIC

Filed Sept. 8, 1965

FIG. 1



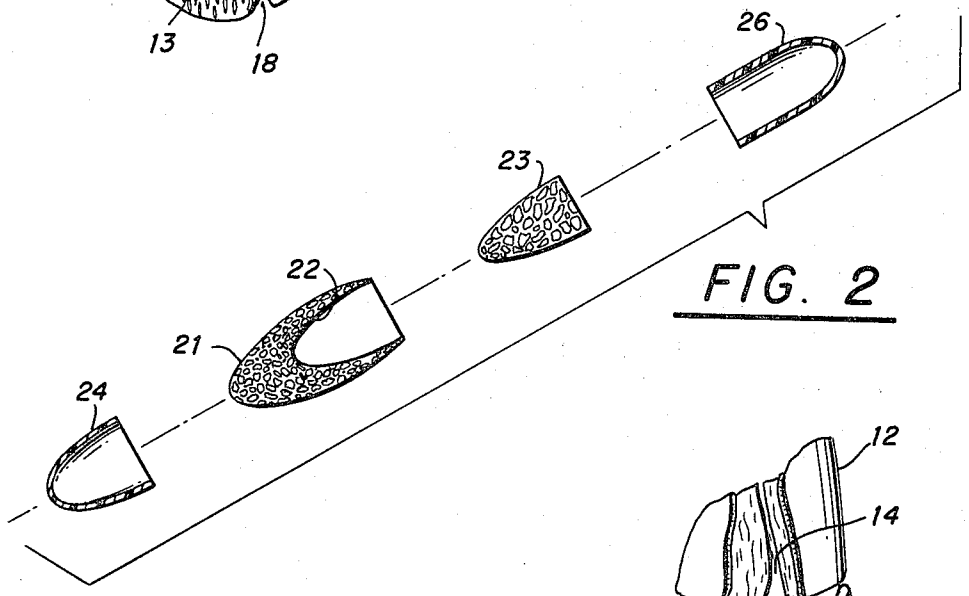


FIG. 2

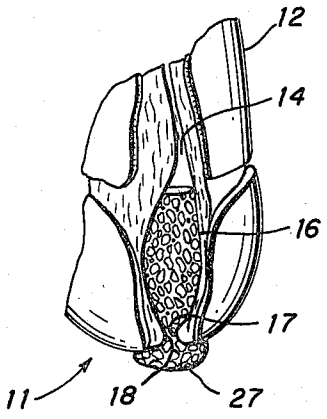


FIG. 3

INVENTORS
COURTNEY W. WHITE
BY LAWRENCE J. CROW

Richard K. Macneill

United States Patent Office

3,373,746

Patented Mar. 19, 1968

3,373,746

INTERNAL PROPHYLACTIC

Courtney W. White, 4890 Hart Drive, San Diego, Calif. 92116, and Lawrence J. Crow, 9451 El Granito, La Mesa, Calif. 92041

Filed Sept. 8, 1965, Ser. No. 485,698
3 Claims. (Cl. 128—294)

The present invention relates to an internal prophylactic appliance, and more particularly, to an internal prophylactic appliance for insertion in the urethrae.

According to the invention, an open ended tubular member constructed of a porous flexible material, such as styrene, rubber or plastic, is provided for insertion therein of an absorption member conforming to the inner dimensions of the open ended tubular member. The absorption member is also preferably constructed of foam of the styrene rubber or plastic types for maximum absorption and flexibility. For maximum protection, a spermicidal jelly is carried within the pores of the open ended tubular member for forming a seal when combined with sperm at the time of ejaculation. Both the open ended tubular member and the absorption member can be enclosed by a gelatin capsule designed to dissolve at body temperature. The entire assembly can then be easily forced through the external urethral orifice into the fossa navicularis urethrae, at which time the gelation capsule will dissolve, allowing the open ended tubular member and its inserted absorption member to expand to its uncompressed state within the fossa navicularis urethrae. Due to the anatomy of this portion of the urethrae, the entire prophylactic will be held in place, and can be easily removed at the convenience of the wearer.

An object of the present invention is the provision of an internal prophylactic appliance which can easily and conveniently be inserted and removed.

Another object of the invention is the provision of an internal prophylactic appliance which can be utilized with a minimum of discomfort to the wearer.

A further object of the present invention is the provision of an internal prophylactic appliance which is simple and inexpensive to manufacture.

Other objects and many of the attendant advantages of this invention will be readily appreciated as the same becomes better understood by reference to the following detailed description, when considered in connection with the accompanying drawing, in which like referenced numerals designate like parts throughout the figures thereof, and wherein:

FIG. 1 is a schematic representation of the urethrae;

FIG. 2 is an exploded cross-sectional view of the preferred embodiment of the present invention; and

FIG. 3 is a schematic diagram of the urethrae with the internal prophylactic appliance of the present invention in place.

Referring to FIG. 1, a section of a penis is shown generally at **11** having the body portion generally at **12** and the glans portion at **13**. The corpus cavernosum urethrae is shown at **14**, widening at **16** at the fossa navicularis urethrae, and contracting again at **17**, just prior to the orificium urethrae externum **18**.

Referring to FIG. 2, external porous member **21** has recess **22** for cooperation with internal absorption member **23**. Gelatin capsule halves **24** and **26** compress outer porous member **21** and inner absorption member **23**, and completely encapsulates members **21** and **23** when assembled.

Referring to FIG. 3, outer porous member **21** and inner absorption member **23** are shown placed within the fossa navicularis urethrae **16** having an appendage **27** protruding from the orificium urethrae externum **18**, and being compressed at the fossa navicularis urethrae **17**.

The internal prophylactic appliance of the present invention is based upon the anatomy of the urethrae portion of the penis. It is well known that the dilated portion of the urethrae, i.e., the fossa navicularis urethrae, is the most susceptible portion to expansion. Hence, if a porous or foam material is compressed and placed within this portion of the urethrae, it will expand to its uncompressed state causing a minimum of discomfort to the wearer. This is accomplished by the appliance which has been described above, in that the outer absorption member or porous member **21** is compressed within gelatin halves **24** and **26**. Porous member **21** is impregnated with a spermicidal compound such as methoxypolyoxyethyleneglycol or nonylphenorpolyethoxyethanol. This will effect a congealing upon contact with sperm at the time of ejaculation, sealing the outer member **21** and allowing for the containment of the semen within absorption member **23**, since both outer members **21** and **23** can expand within the fossa navicularis urethrae **16**. At the time of insertion, gelatin capsule halves **24** and **26** dissolve, allowing for an initial expansion of members **21** and **23**, as shown in FIG. 3, i.e., they will expand to their uncompressed state as shown in FIG. 2. Appendage **27** is created by constriction **17** separating the fossa navicularis urethrae **16** and the orificium urethrae externum **18**. Extension **27** effects easy removal after use.

At the time of ejaculation, semen enters inner absorption member **23** and outward into outer foam member **21**. At the time the semen enters outer member **21**, the spermicidal jelly causes it to congeal, forming a seal which will not allow passage therethrough. Both foam members **21** and **23** will then expand further in the fossa navicularis urethrae, as necessary for total absorption of the semen.

It should be understood, of course, that the foregoing disclosure relates to only a preferred embodiment of the invention, and that it is intended to cover all changes and modifications of the examples of the invention herein chosen for the purposes of the disclosure, which do not constitute departures from the spirit and scope of the invention.

What is claimed is:

1. An internal prophylactic appliance comprising:

an open ended tubular member constructed of a porous expandable material;

an inner absorption member constructed of a porous expandable material, said inner absorption member being press fitted within said open ended tubular member; and

a capsule adapted to dissolve at body temperature wherein said open ended tubular member is encapsulated in said capsule, the outer said open ended tubular member having an outside dimension suitable for the insertion thereof within a user's urethrae.

2. The internal prophylactic appliance of claim **1** wherein said inner absorption member is more porous than said open ended tubular member.

3. The internal prophylactic appliance of claim 1 wherein said open ended tubular member is impregnated with a spermicidal gelatin.

References Cited

UNITED STATES PATENTS

1,240,125	9/1917	Doud	128—294
2,676,594	4/1954	Milcent	128—285
2,884,925	5/1959	Meynier	128—285
3,128,762	4/1964	Young	128—127
3,316,895	5/1967	Lewis	128—294

FOREIGN PATENTS

352,014	4/1922	Germany.
504,554	8/1930	Germany.

RICHARD A. GAUDET, *Primary Examiner.*

C. F. ROSENBAUM, *Examiner.*